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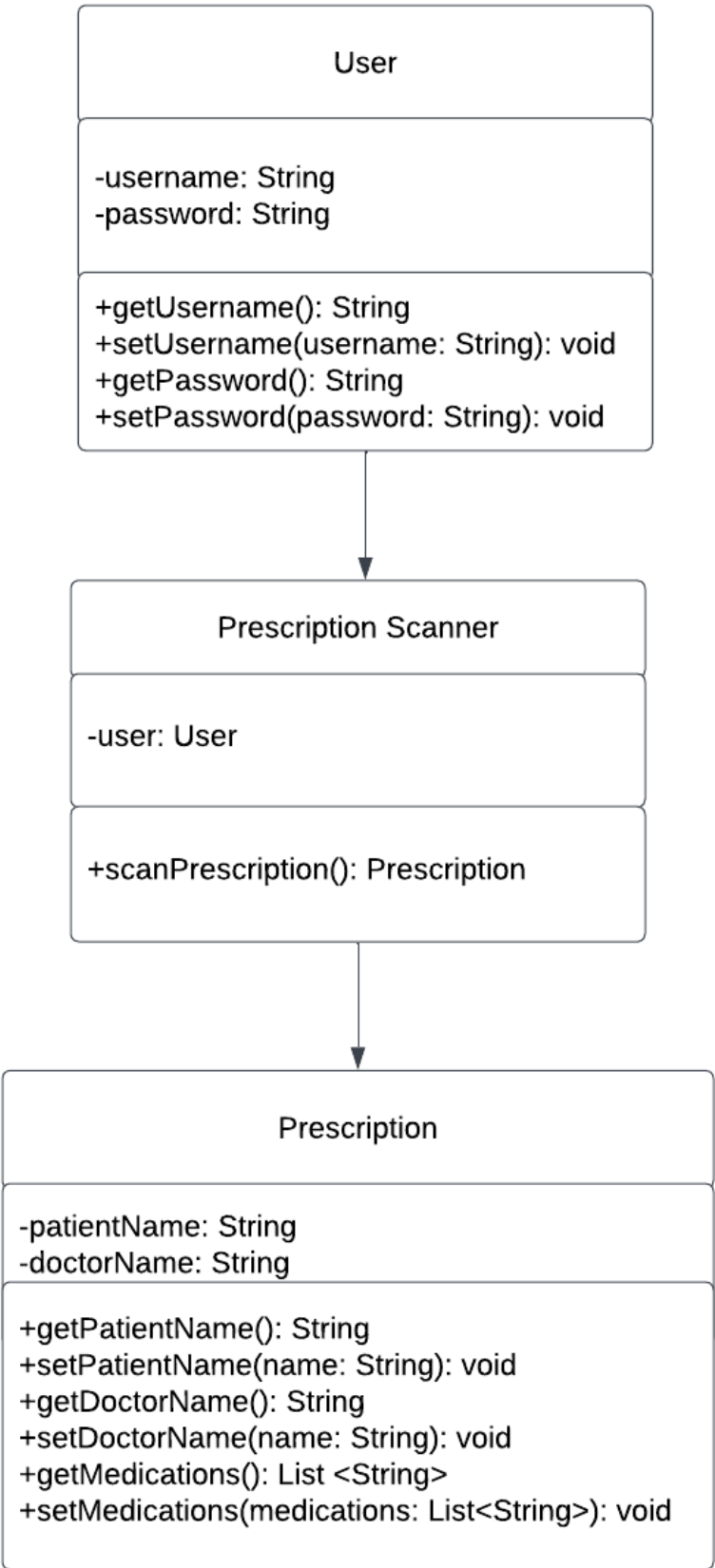
**Instructions:** Create 3 UML diagrams (any UML diagrams) that will best describe your ABCD project. This will give insight on the overall totally of your project.
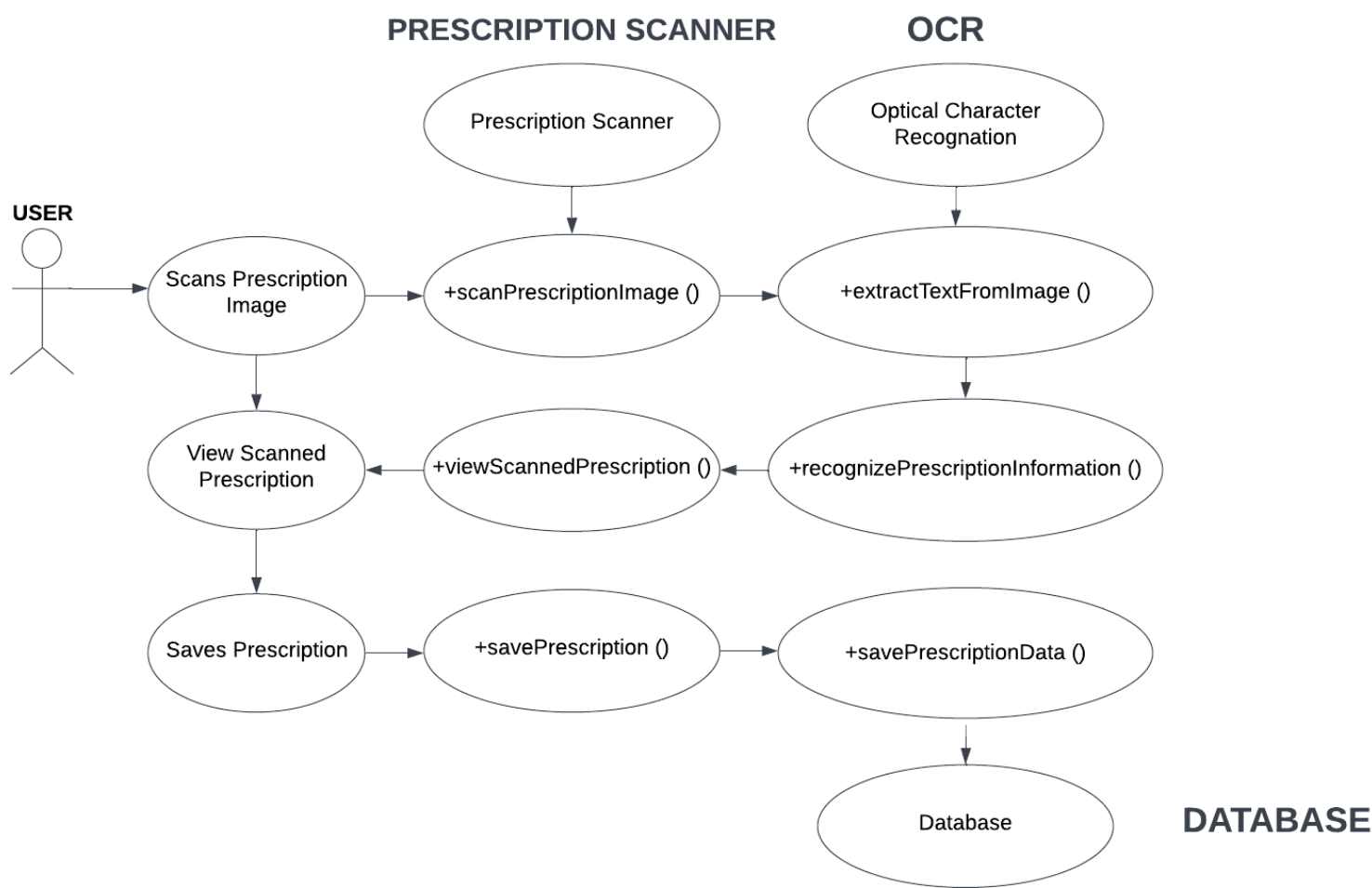
### A. Class Diagram

The class diagram includes four classes: User, PrescriptionScanner, and Prescription. The User class represents a user of the system and has attributes for username and password. The PrescriptionScanner class now includes a User object to represent the user who is performing the prescription scanning process. The Prescription class represents a prescription with attributes for patient name, doctor name, and medications.

| User |
| --- |
| -username: String<br>-password: String |
| +getUsername(): String<br>+setUsername(username: String): void<br>+getPassword(): String<br>+setPassword(password: String): void |

| Prescription Scanner |
| --- |
| -user: User |
| +scanPrescription(): Prescription |

| Prescription |
| --- |
| -patientName: String<br>-doctorName: String |
| +getPatientName(): String<br>+setPatientName(name: String): void<br>+getDoctorName(): String<br>+setDoctorName(name: String): void<br>+getMedications(): List <String><br>+setMedications(medications: List<String>): void |

## B. Use Case Diagram

In these diagrams, the "User" is the actor who interacts with the Prescription Scanner system. The "Prescription Scanner" is the main component of the system and has use cases such as scanning prescription images, viewing scanned prescriptions, editing prescription information, and saving prescriptions. The "Optical Character Recognition (OCR)" component handles the extraction of text from the scanned images and recognition of prescription information. The "Database" component handles saving and retrieving prescription data.

## C. Activity Diagram

In this activity diagram, the User performs actions such as scanning prescription images, viewing scanned prescriptions, information, and saving prescriptions. These actions trigger corresponding activities in the Prescription Scanner system, OCR component, and Database component. The arrows indicate the flow of activities from one component to another, representing the interactions and dependencies between them in the Prescription Scanner project.